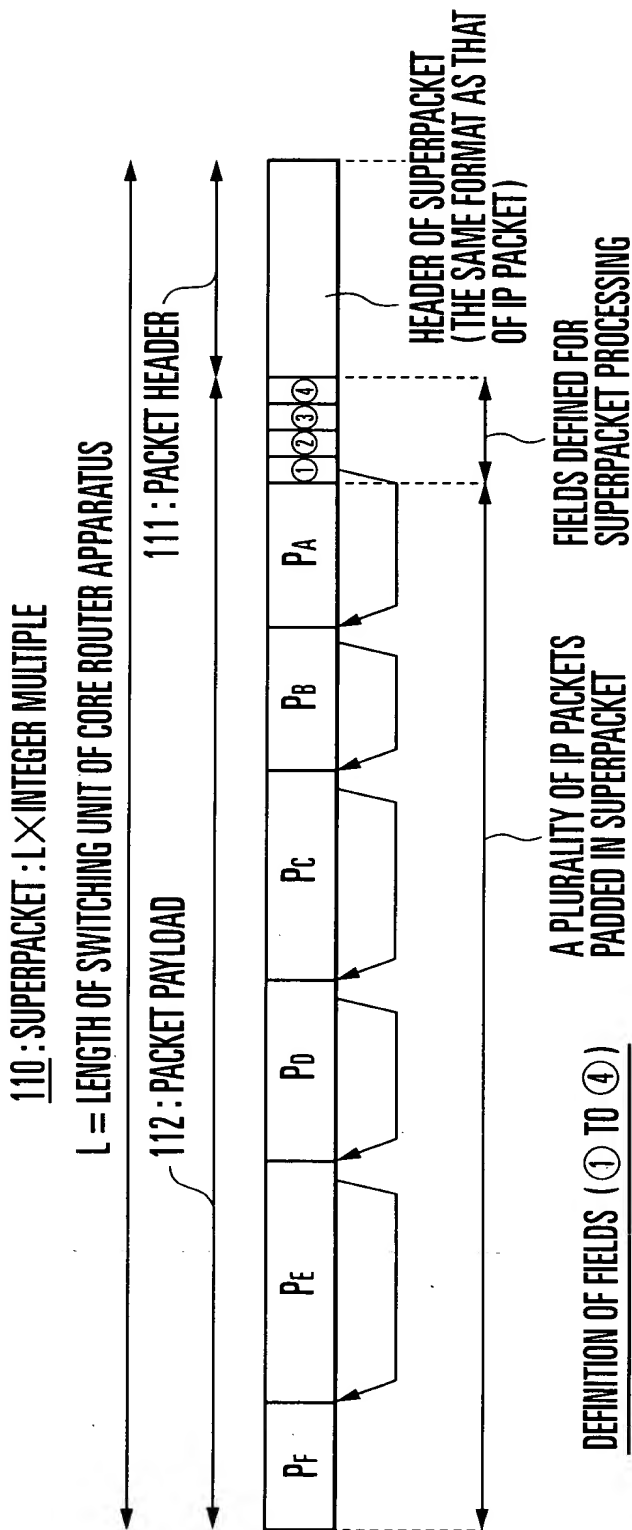


FIG. 2



- ① POINTER FIELD
- ② POINTER INDICATING START POSITION OF FIRST IP PACKET PADDED IN SUPERPACKET
- ③ PACKET COUNT FIELD
- ④ FIELD REPRESENTING THE NUMBER OF PACKET START POSITIONS THAT OCCUR ON SUPERPACKET
- ⑤ FIELD REPRESENTING WHETHER IP PACKET AT THE END OF SUPERPACKET IS ACTUAL IP PACKET DATA OR MERELY FREE REGION FOR PADDING
- ⑥ SINGLE PACKET OCCUPATION FIELD
- ⑦ FIELD REPRESENTING THAT ENTIRE SUPERPACKET IS USED BY PARTIAL DATA OF SINGLE IP PACKET AND HAS NO PACKET START POSITION OR PADDING

FIG. 3

EXAMPLE OF HEADER OF SUPERPACKET (EXAMPLE FOR IPv4)

VERSION	IHL	SERVICE TYPE	TOTAL LENGTH	
IDENTIFIER (ID)		FLAG	FRAGMENT OFFSET	
TIME TO LIVE (TTL)		PROTOCOL	HEADER CHECKSUM	
TRANSMISSION-SOURCE ADDRESS (DESCRIBING TRANSMISSION-SOURCE EDGE ROUTER ADDRESS)				
DESTINATION ADDRESS (DESCRIBING DESTINATION EDGE ROUTER ADDRESS)				
OPTION			PADDING	

FIG. 4

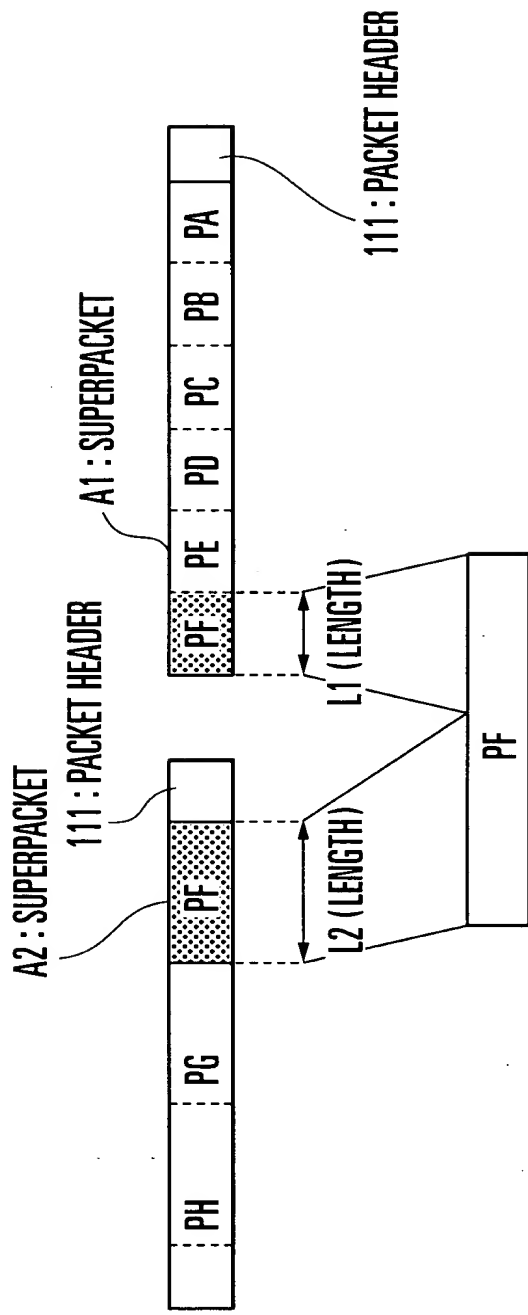


FIG. 5A

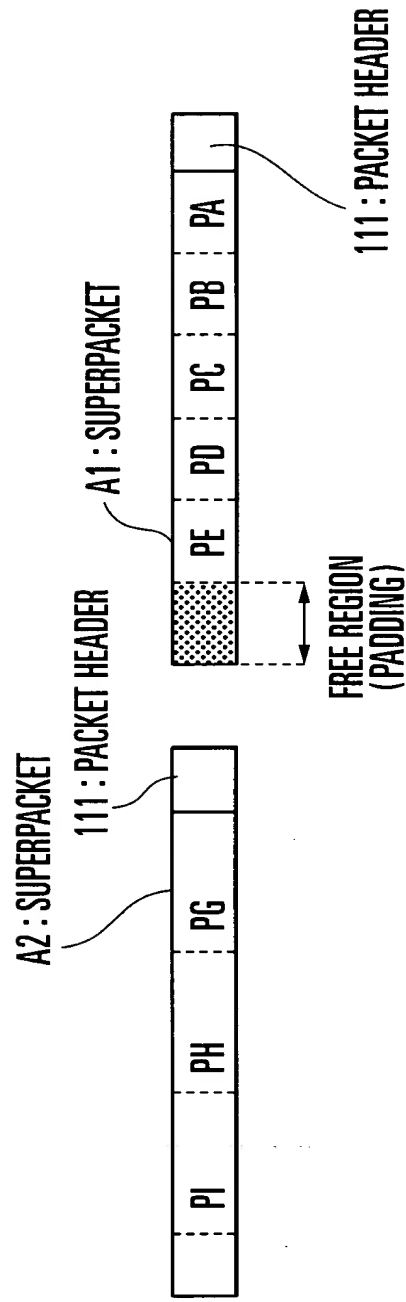


FIG. 5B

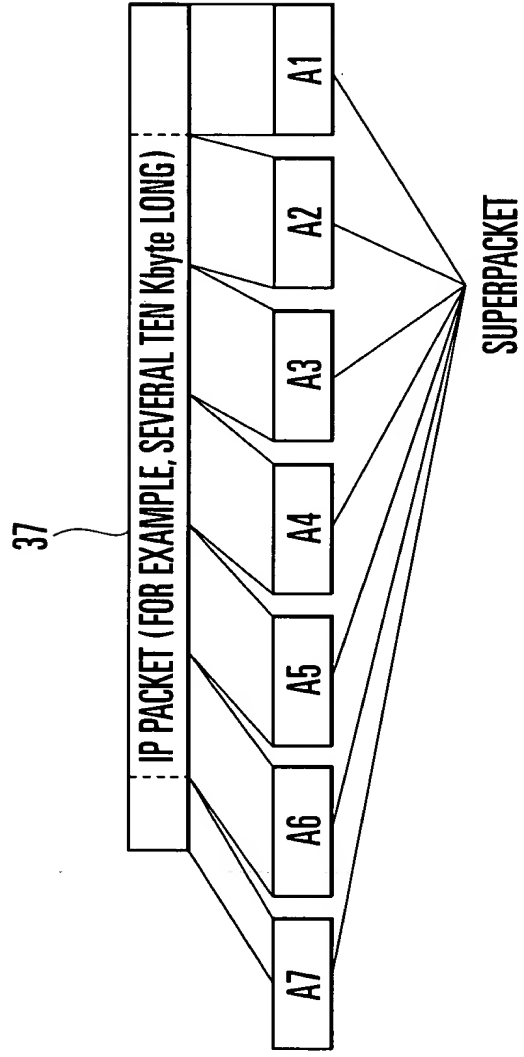


FIG. 6

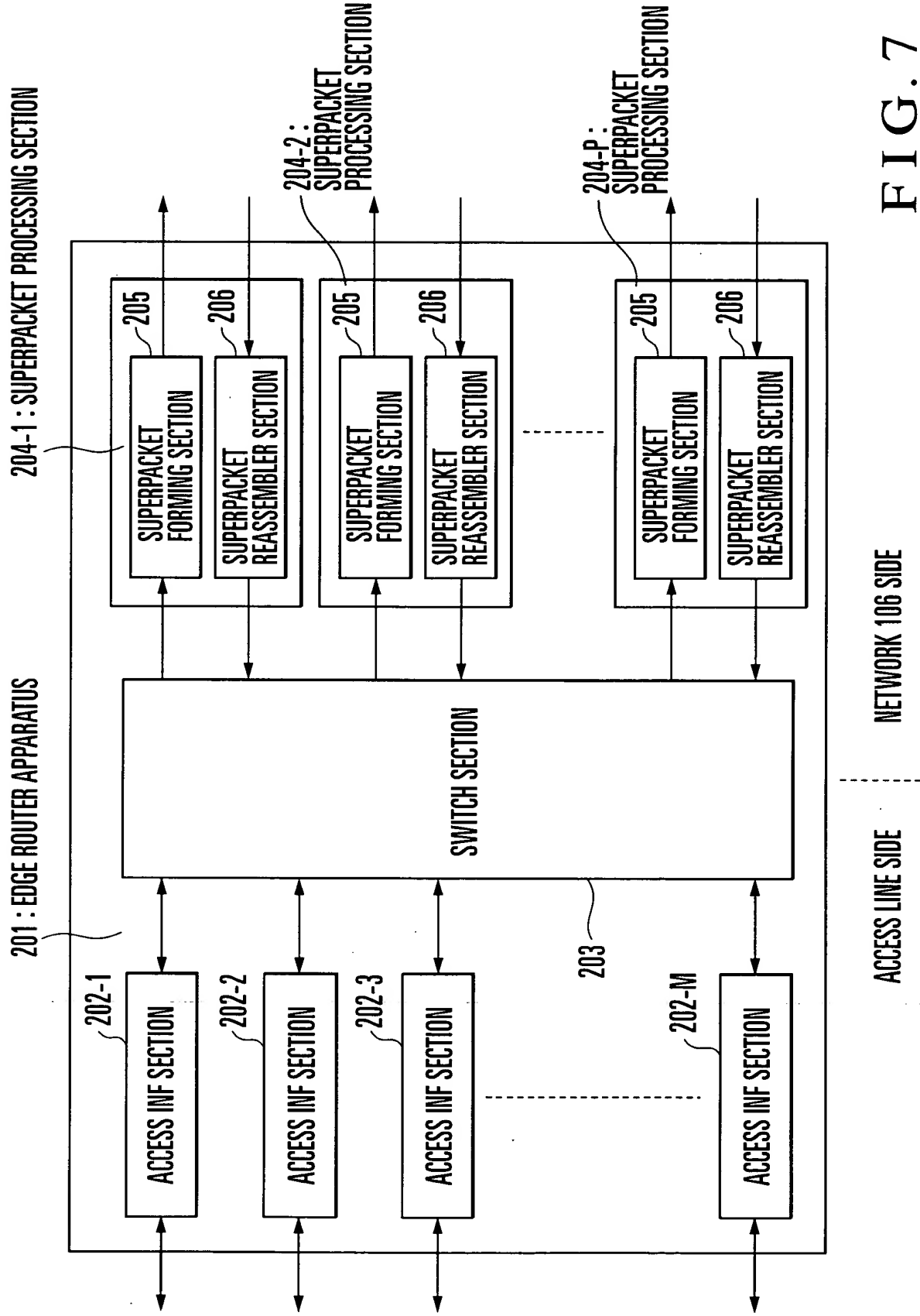


FIG. 7

P **E** **C** **A** **T** **I** **O** **N**

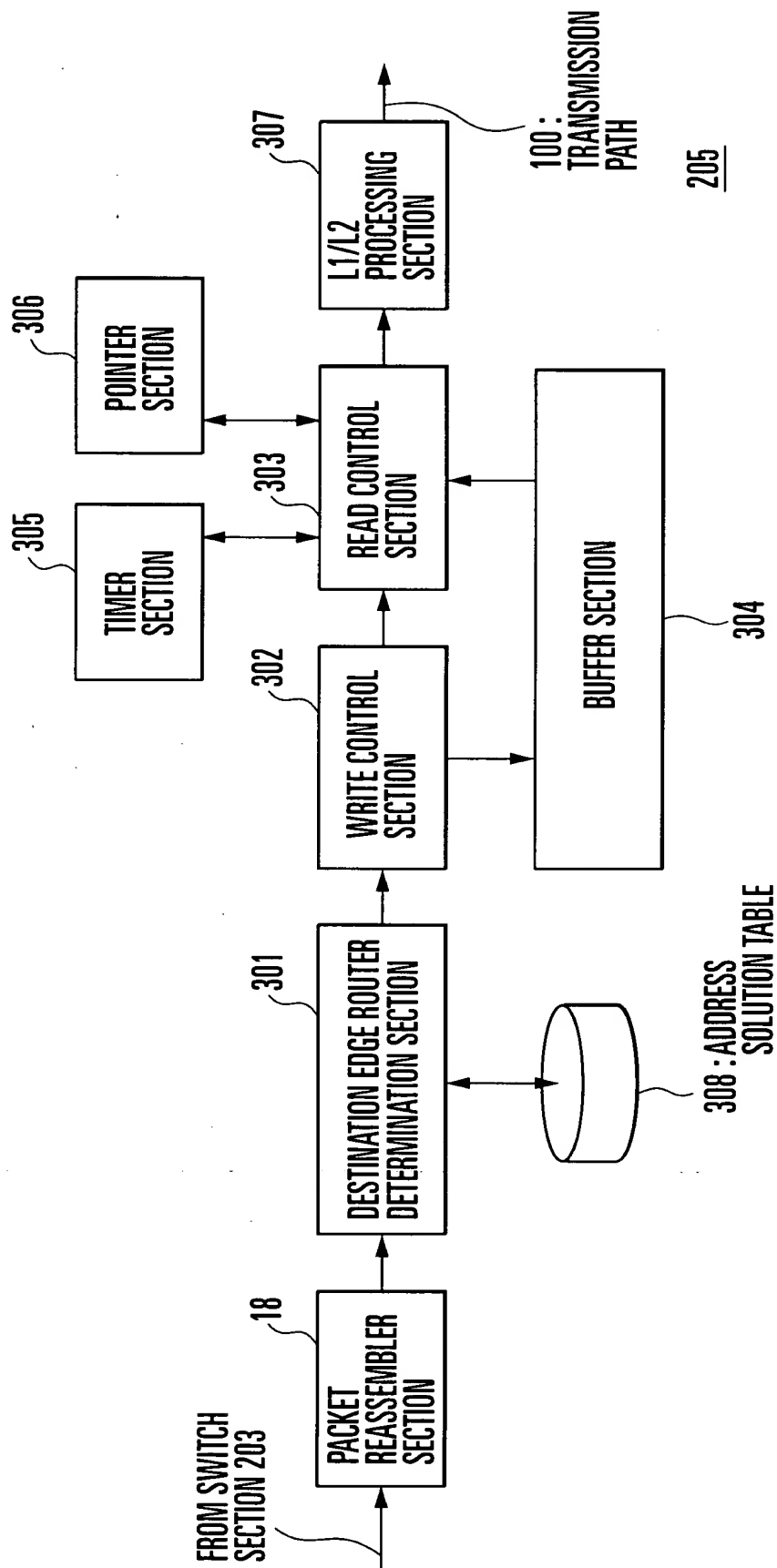


FIG. 8

32-BIT DESTINATION IP ADDRESS			EACH ENTRY
X1. Y1. K1. Z1	NETWORK ADDRESS OF EGRESS EDGE ROUTER	POINTER INFORMATION REPRESENTING CONNECTION TO ADJACENT ENTRY IN BINARY TREE	
X2. Y2. K2. Z2	NETWORK ADDRESS OF EGRESS EDGE ROUTER	POINTER INFORMATION REPRESENTING CONNECTION TO ADJACENT ENTRY IN BINARY TREE	
X3. Y3. K3. Z3	NETWORK ADDRESS OF EGRESS EDGE ROUTER	POINTER INFORMATION REPRESENTING CONNECTION TO ADJACENT ENTRY IN BINARY TREE	
X4. Y4. K4. Z4	NETWORK ADDRESS OF EGRESS EDGE ROUTER	POINTER INFORMATION REPRESENTING CONNECTION TO ADJACENT ENTRY IN BINARY TREE	

FIG. 9

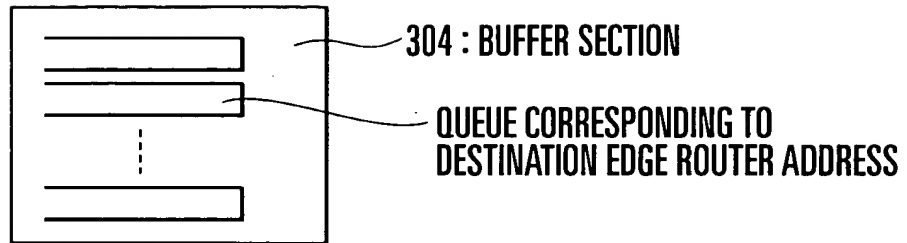


FIG. 10

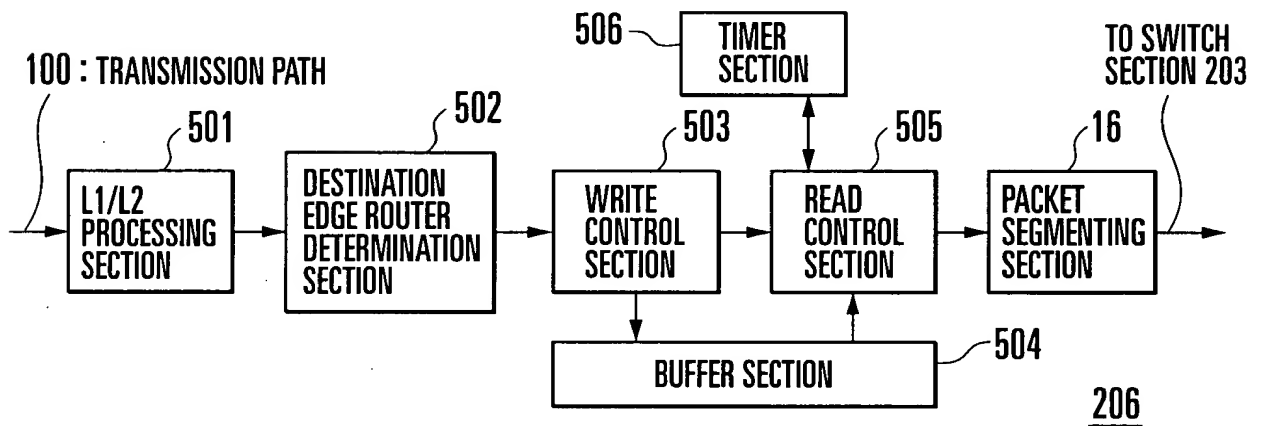


FIG. 11

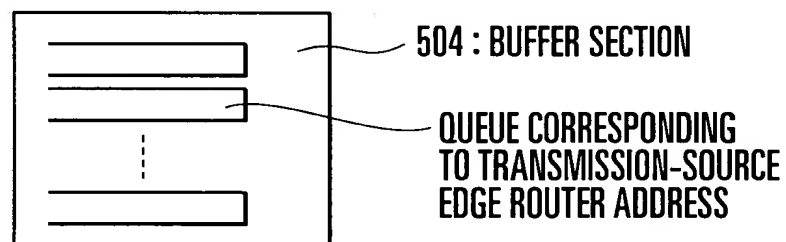
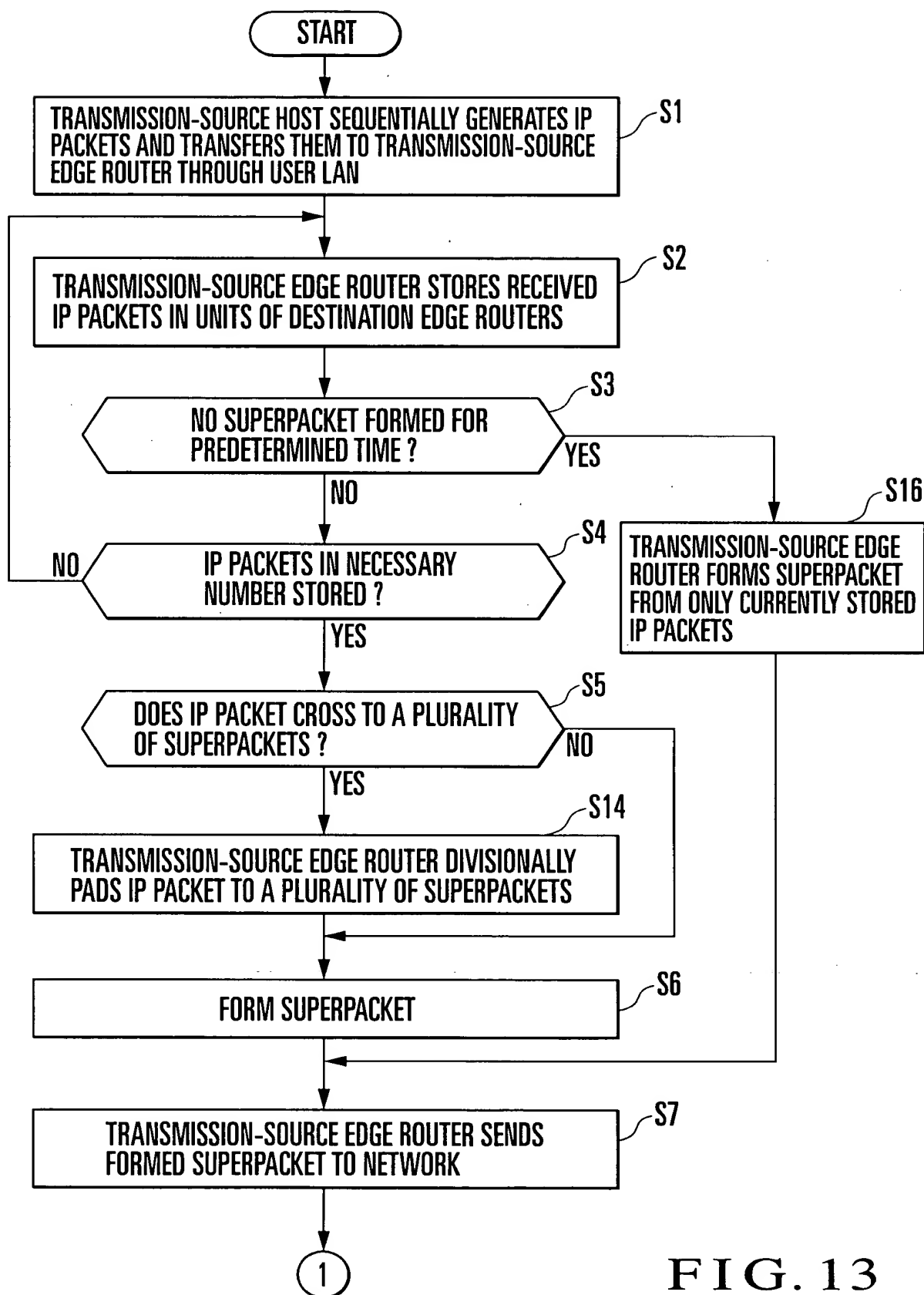


FIG. 12



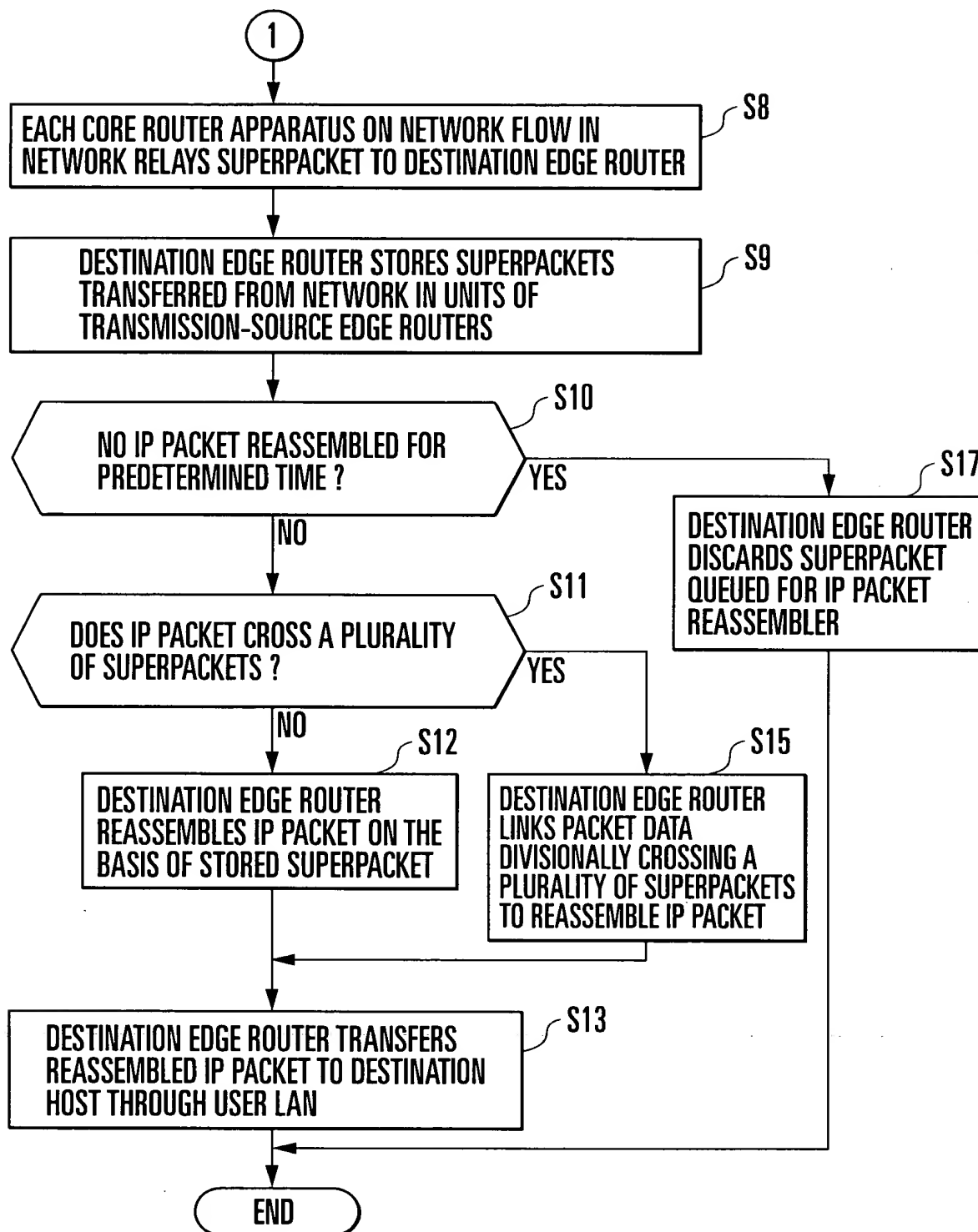


FIG. 14

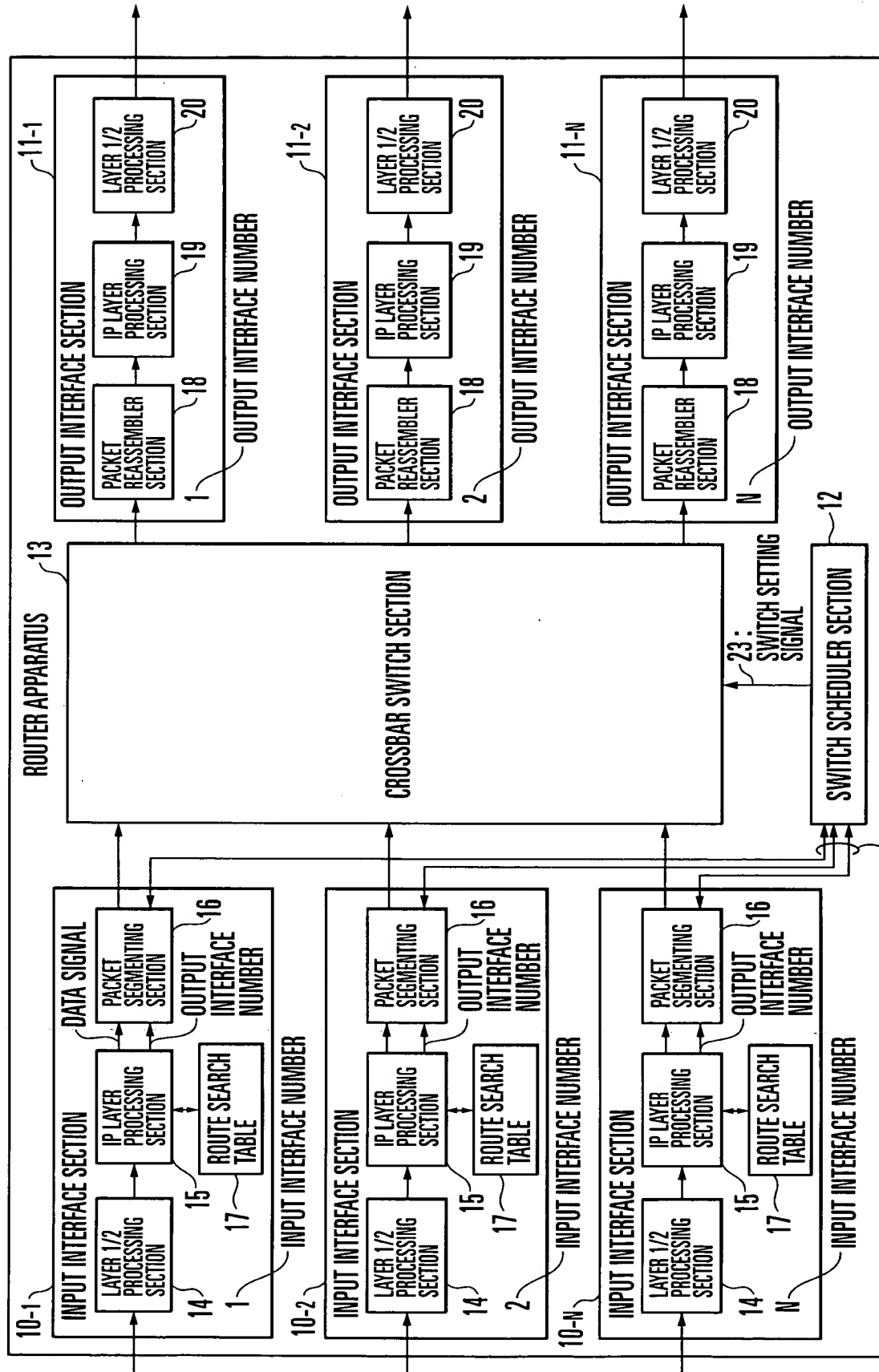


FIG. 16
PRIOR ART

21: TRANSFER REQUEST SIGNAL (PACKET SEGMENTING SECTION → SWITCH SCHEDULER SECTION)
22: TRANSFER REPLY SIGNAL (PACKET SCHEDULER SECTION → PACKET SEGMENTING SECTION)

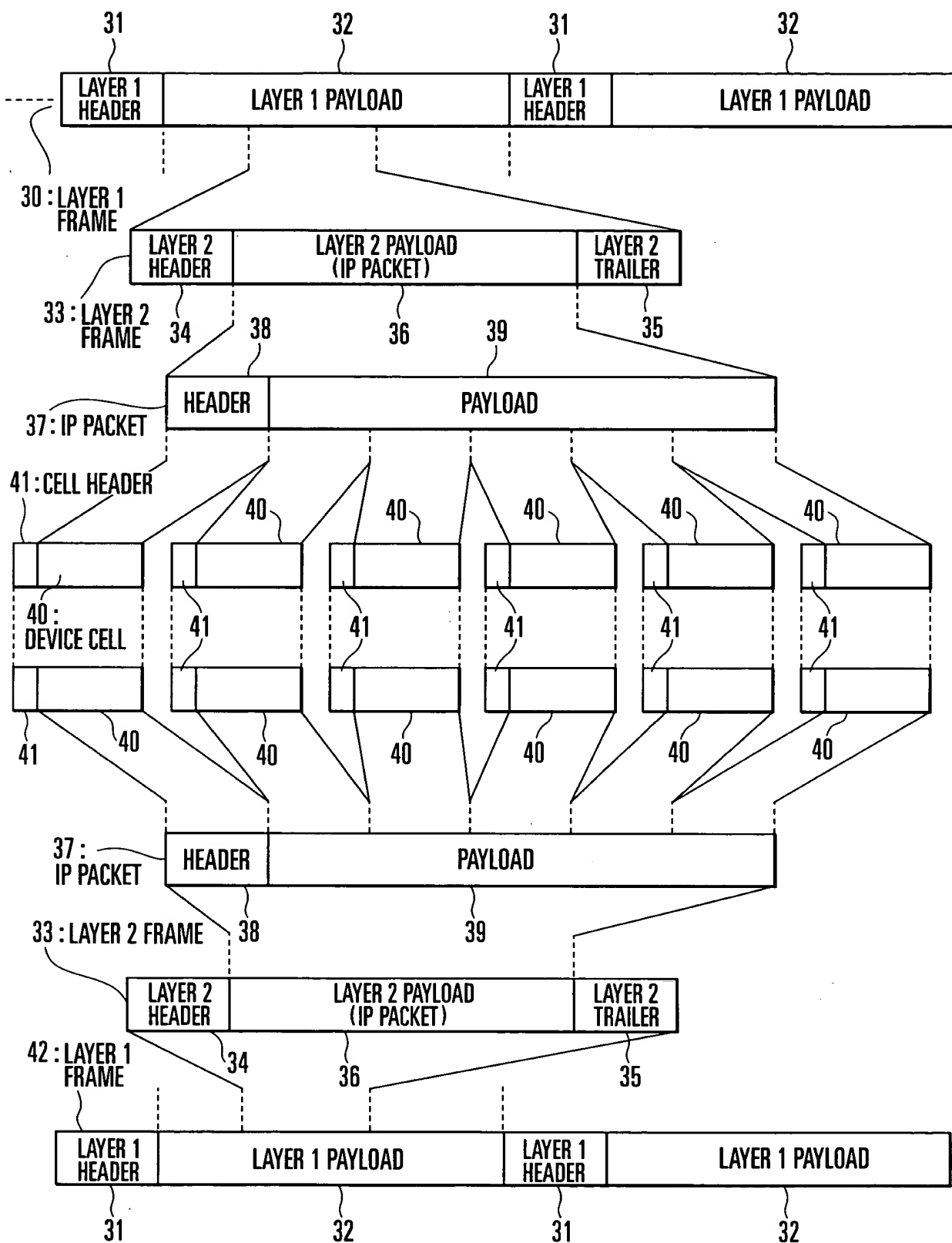


FIG. 17
PRIOR ART

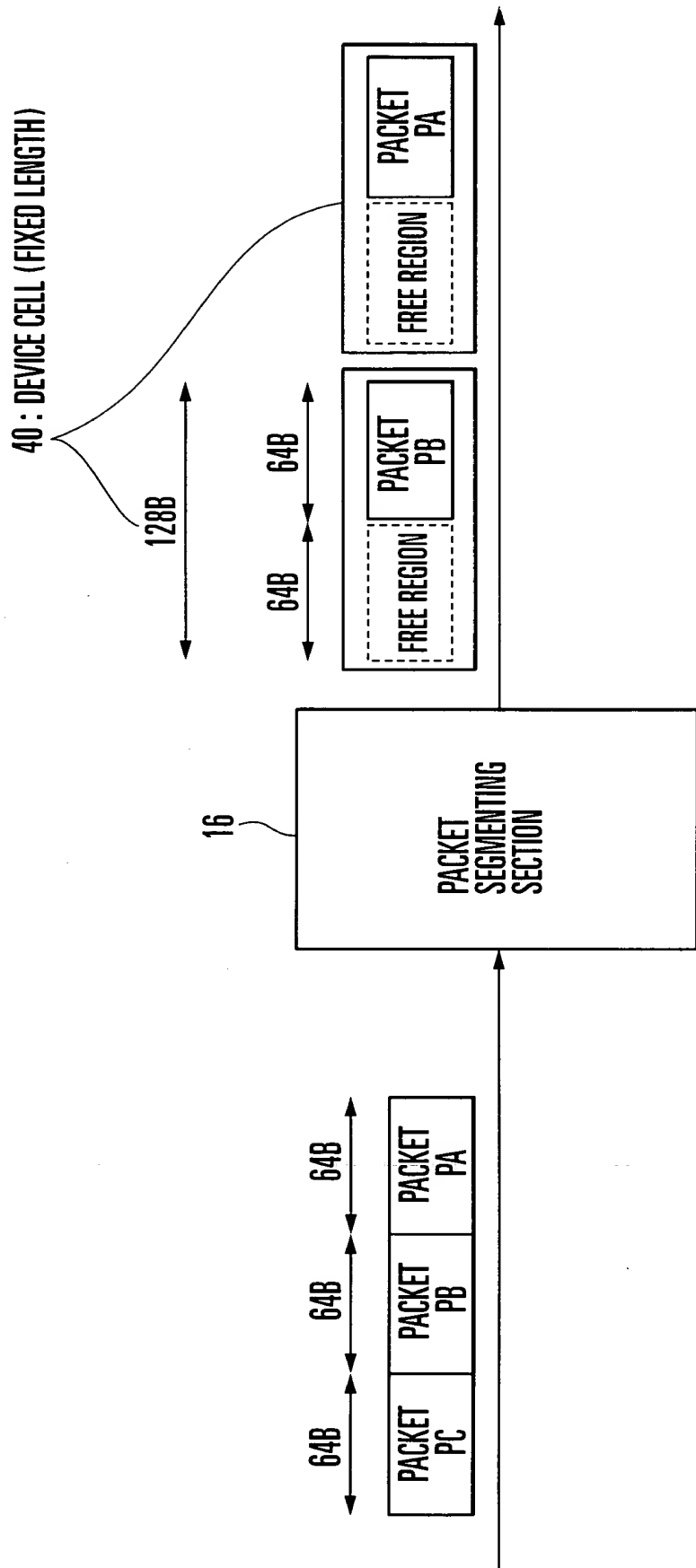


FIG. 18
PRIOR ART

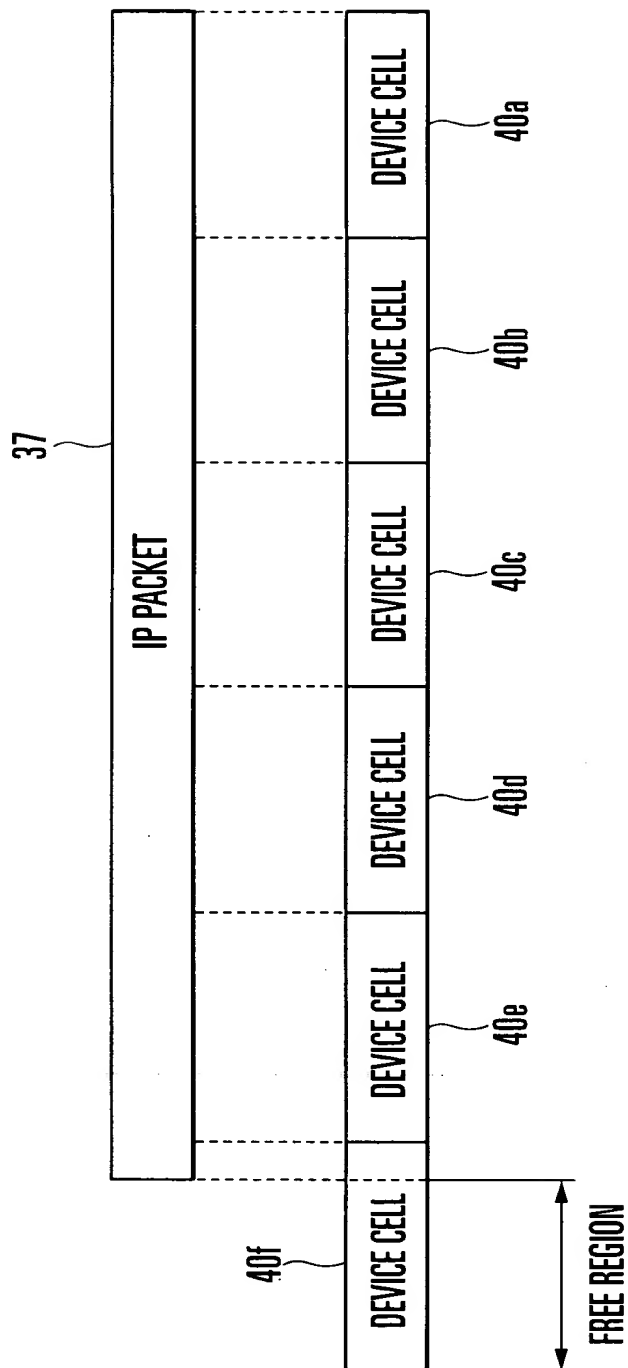
[illegible]

FIG. 19
PRIOR ART